

## AMENDMENT

### Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

1. (Presently amended) An isolated antimicrobial peptide of ~~not more than 50~~12-37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 1),  
KNIRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 6),  
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),  
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8),  
NLRRIIRKIIHIKKY (SEQ ID NO 9),  
NIRRIIRKIIHIKKY (SEQ ID NO: 10),  
LRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11),  
LRRIIRKIIHIKK (SEQ ID NO: 12),  
IRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13),  
IRRIIRKIIHIKK (SEQ ID NO: 14),  
LRRIIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 15),  
RRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 16),  
RRIIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 17),  
GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),  
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),  
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),  
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),  
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),  
RKFRNKIKEKLKKIG (SEQ ID NO: 24),  
KIKEKLKKIGQKIQG (SEQ ID NO: 25),  
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

~~RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH<sub>2</sub> (SEQ ID NO: 27),~~ and  
KNLRRIIRKIIHIKKYGPTILRIIRIG-NH<sub>2</sub> (SEQ ID NO: 28).

2. (Canceled)
3. (Twice amended) A pharmaceutical composition comprising an antimicrobial peptide of ~~not more than 50~~12 to 37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 1),  
KNIRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 6),  
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),  
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8),  
NLRRIIRKIIHIKKY (SEQ ID NO 9),  
NIRRIIRKIIHIKKY (SEQ ID NO: 10),  
LRRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11),  
LRRIRKIIHIKK (SEQ ID NO: 12),  
IRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13),  
IRRIIRKIIHIKK (SEQ ID NO: 14),  
LRRIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 15),  
RRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 16),  
RRIIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 17),  
GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),  
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),  
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),  
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),  
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),  
RKFRNKIKEKLKKIG (SEQ ID NO: 24),  
KIKEKLKKIGQKIQG (SEQ ID NO: 25),  
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

~~RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH<sub>2</sub>~~ (SEQ ID NO: 27), and  
KNLRRIIRKIIHIIKKYGPTILRIIRIG-NH<sub>2</sub> (SEQ ID NO: 28),  
formulated in a pharmaceutically acceptable carrier.

4-31. (Canceled)

32. (New) An antimicrobial peptide consisting of the sequence RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH<sub>2</sub> (SEQ ID NO: 27).
33. (New) A pharmaceutical composition comprising (a) an antimicrobial peptide consisting of the sequence RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH<sub>2</sub> (SEQ ID NO: 27), and (b) a pharmaceutically acceptable carrier.
34. (New) An antimicrobial peptide consisting of the sequence KNLRRIIRKIIHIIKKYG-NH<sub>2</sub> (SEQ ID NO: 1).
35. (New) The antimicrobial peptide of claim 1, consisting of the sequence KNIRRIIRKIIHIIKKYG-NH<sub>2</sub> (SEQ ID NO: 6).
36. (New) The antimicrobial peptide of claim 1, consisting of the sequence KNIRRIIRKIIHIIKKYG (SEQ ID NO: 7).
37. (New) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIIRKIIHIIKKYG (SEQ ID NO: 8).
38. (New) The antimicrobial peptide of claim 1, consisting of the sequence NLRRIIRKIIHIIKKY (SEQ ID NO 9).
39. (New) The antimicrobial peptide of claim 1, consisting of the sequence NIRRIIRKIIHIIKKY (SEQ ID NO: 10).

40. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11).
41. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIKK (SEQ ID NO: 12).
42. (New) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13).
43. (New) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIKK (SEQ ID NO: 14).
44. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 15).
45. (New) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 16).
46. (New) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 17).
47. (New) The antimicrobial peptide of claim 1, consisting of the sequence GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19).
48. (New) The antimicrobial peptide of claim 1, consisting of the sequence KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20).
49. (New) The antimicrobial peptide of claim 1, consisting of the sequence RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21).

50. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22).
51. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23).
52. (New) The antimicrobial peptide of claim 1, consisting of the sequence RKFRNKIKEKLKKIG (SEQ ID NO: 24).
53. (New) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (New) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQGLL (SEQ ID NO: 26).
55. (New) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIIRKIIHIKKYGPTILRIIRIIG-NH<sub>2</sub> (SEQ ID NO: 28).